

ENVIRONMENTALLY PREFERABLE PRODUCTS RECYCLED CONTENT GUIDE

OA/DPMM has chosen to adopt EPA's recommended guidelines for classifying environmentally preferable products (EPPs). For more information on EPA's recommended guidelines, please visit EPA's "Buy Recycled" series @ <http://www.epa.gov/epaoswer/non-hw/procure/factshts.htm>. In addition to recycled content recommendations, EPA has also made available valuable information including frequently asked questions, case studies, definition of terms, bid language, etc. This site also provides a list of manufacturers and suppliers of environmentally preferable products.

This guide identifies the recommended recycled content levels to look for when purchasing the products listed below. This information is provided to help identify and classify EPPs. All recommendations are based on EPA guidelines with ranges recommended as a result of market availability.

Paper Products

- Printing and Writing Papers
- Newsprint
- Commercial Sanitary Tissue Products
- Paperboard and Packaging Products
- Miscellaneous Paper Products

Non-Paper Office Products

- Recycling Containers and Waste Receptacles
- Plastic Desktop Accessories
- Binders
- Trash Bags
- Toner Cartridges
- Printer Ribbons
- Plastic Envelopes
- Plastic Clipboards
- Plastic File Folders
- Plastic Clip Portfolios
- Plastic Presentation Folders

Construction Products

- Structural Fiberboard
- Laminated Paperboard
- Rock Wool Insulation
- Fiberglass Insulation
- Cellulose Insulation
- Perlite Composite Board/Insulation
- Plastic Rigid Foam
- Foam-in-Place Insulation
- Glass Fiber Reinforced Insulation
- Phenolic Rigid Foam Insulation
- Floor Tiles
- Patio Blocks
- Polyester Carpet Fiber Face
- Latex Paint
- Shower and Restroom Dividers/Partitions
- Carpet Cushion
- Railroad Grade Crossing Surfaces
- Cement

Landscaping Products

- Hydraulic Mulch
- Compost Made From Yard Trimmings and/or Food Waste
- Garden Hose
- Soaker Hose
- Lawn and Garden Edging
- Landscaping Timber And Posts

Park & Recreation Products

- Park Benches and Picnic Tables
- Plastic Fencing
- Playground Equipment
- Playground Surfaces
- Running Tracks

Transportation Products

- Traffic Cones
- Traffic Barricades
- Parking Stops
- Traffic Control Devices

Vehicular Products

- Re-Refined Oil
- Retread Tires
- Engine Coolants

Miscellaneous Products

- Awards and Plaques
- Industrial Drums
- Mats
- Pallets
- Signage
- Sorbents
- Strapping, Manual-Grade

| PAPER PRODUCTS | | Recovered Content (%) | Post-consumer Content (%) |
|------------------------------------|--|-----------------------|---------------------------|
| Item | Notes | | |
| Printing and Writing Papers | | | |
| Cotton Fiber | High-quality papers used for stationery, invitations, currency, ledgers, maps, and other specialty items | 30 | 30 |
| Text and cover | Premium papers used for cover stock, books, and stationery and matching envelopes | 30 | 30 |
| Papeteries | Used for invitations and greeting cards | 30 | 30 |
| Offset | Used for book publishing, commercial printing, direct mail, technical documents and manuals | 30 | 30 |
| Reprographic | Business papers such as bond, electrostatic, copy, mimeo, duplicator and reproduction | 30 | 30 |
| Forms bond | Bond type papers used for business forms such as continuous, cash register, sales book, unit sets, and computer printout, excluding carbonless | 30 | 30 |
| Tablet | Office paper such as note pads and notebooks | 30 | 30 |
| Envelope | Wove | 30 | 30 |
| | Kraft, white and colored (including manila) | 10-20 | 10-20 |
| | Kraft, unbleached excludes custom envelopes | 10 | 10 |
| Super-calendered | Groundwood paper used for advertising and mail order inserts, catalogs, and some magazines | 10 | 10 |
| Machine finished groundwood | Groundwood paper used in magazines and catalogs | 10 | 10 |
| Check safety | Used in the manufacture of commercial and government checks | 10 | 10 |
| Coated | Used for annual reports, posters, brochures and magazines. High gloss, dull, or matte finishes | 10 | 10 |

| PAPER PRODUCTS | | Recovered Content (%) | Post Consumer Content (%) |
|-----------------------|--|------------------------------|----------------------------------|
| Item | Notes | | |
| Carbonless | Used in the production of multiple impact copy forms | 30 | 30 |
| File folders | Manila or kraft | 30 | 30 |
| Dyed filing products | Used for multicolored hanging folders | 20-50 | 20 |
| Index and card stock | Used for index cards, postcards | 50 | 20 |
| Pressboard | High-strength paperboard used in binders and report covers | 50 | 20 |
| Tags and tickets | Used for toll and lottery tickets, licenses, and identification and tabulating cards | 20-50 | 20 |

Newsprint

| | | | |
|-----------|-------------------------------------|--------|-------|
| Newsprint | Groundwood paper used in newspapers | 20-100 | 20-85 |
|-----------|-------------------------------------|--------|-------|

Commercial Sanitary Tissue Products

| | | | |
|-----------------------------------|--|--------|-------|
| Bathroom tissue | Used in rolls or sheets | 20-100 | 20-60 |
| Paper towels | Used in rolls or sheets | 40-100 | 40-60 |
| Paper napkins | Used in food service applications | 30-100 | 30-60 |
| Facial tissue | Used for personal care | 10-100 | 10-15 |
| General purpose industrial wipers | Used in cleaning and wiping applications | 40-100 | 40 |

Paperboard and Packaging Products

| | | | |
|---|---|-------|-------|
| Corrugated containers (<300 psi) (300 ps i) | Used for packaging and shipping a variety of goods | 25-50 | 25-50 |
| | | 25-30 | 25-30 |
| Solid fiber boxes | Used for specialized packaging needs such as dynamite packaging and army ration boxes | 40 | 40 |

| PAPER PRODUCTS | | Recovered Content (%) | Post-consumer Content (%) |
|-----------------------|---|-----------------------|---------------------------|
| Item | Notes | | |
| Folding cartons | Used to package a wide variety of foods, household products, cosmetics, pharmaceuticals, detergent and hardware | 100 | 40-80 |
| Industrial paperboard | Used to create tubes, cores, cans, and drums | 100 | 45-100 |
| Miscellaneous | Includes chipboard pad backings, book covers, covered binders, mailing tubes, game boards, and puzzles | 90-100 | 75-100 |
| Padded mailers | Made from kraft paper that is usually brown but can be bleached white | 5-15 | 5-15 |
| Carrierboard | A type of folding carton designed for multi-pack beverage cartons | 10-100 | 10-15 |
| Brown papers | Used for bags and wrapping paper | 5-40 | 5-20 |

Miscellaneous Paper Products

| | | | |
|-------------|--|-----|-------|
| Tray liners | Used to line food service trays. Often contain printed information | 100 | 50-75 |
|-------------|--|-----|-------|

NON-PAPER OFFICE PRODUCTS

| NON-FIBER OFFICE PRODUCTS | | | | |
|--|----------------------------|----------------|---------|---------|
| Item | Recovered Material Content | | | |
| Recycling Containers and Waste Receptacles | | | | |
| Plastic | 20-100% | (postconsumer) | | |
| Steel (BOF) process | 16% | (postconsumer) | 25-30% | (total) |
| Paper Corrugated | 25-50% | (postconsumer) | 25-50% | (total) |
| Solid Fiber Boxes | 40% | (postconsumer) | | |
| Industrial Paperboard | 40-80% | (postconsumer) | 100% | (total) |
| Plastic Desktop Accessories (Polystyrene) (includes desk organizers, sorters and trays, and memo, note and pencil holders) | | | | |
| | 25-80% | (postconsumer) | | |
| Binders | | | | |
| Plastic covered | 25-50% | | | |
| Paper-covered | 75-100% | (postconsumer) | 90-100% | (total) |
| Pressboard | 20% | (postconsumer) | 50% | (total) |
| Solid Plastic | | | | |
| HDPE | 90% | (postconsumer) | 90% | (total) |
| PE | 30-50% | (postconsumer) | 30-50% | (total) |
| PET | 100% | (postconsumer) | 100% | (total) |
| Misc. Plastics | 80% | (postconsumer) | 80% | (total) |

| | | | | | |
|------------------------------|---|---------|----------------|--------|---------|
| Trash Bags | (plastic) | 10-100% | (postconsumer) | | |
| Toner Cartridges | Return used toner cartridges for remanufacturing and reuse or purchase a remanufactured or recycled-content replacement cartridge | | | | |
| Printer Ribbons | Procure printer ribbon reinking or reloading services or procure reinked or reloaded printer ribbons. | | | | |
| Plastic Envelopes | | 25% | (postconsumer) | 25-35% | (total) |
| Plastic Clipboards | | | | | |
| HDPE | | 90% | (postconsumer) | 90% | (total) |
| PS | | 50% | (postconsumer) | 50% | (total) |
| Misc. Plastics | | 15% | (postconsumer) | 15-80% | (total) |
| Plastic File Folders | | | | | |
| HDPE | | 90% | (postconsumer) | 90% | (total) |
| Plastic Clip Portfolios | | | | | |
| HDPE | | 90% | (postconsumer) | 90% | (total) |
| Plastic Presentation Folders | | | | | |
| HDPE | | 90% | (postconsumer) | 90% | (total) |

| CONSTRUCTION PRODUCTS | | Percent of Post-Consumer Materials | Percent of Total Recovered Materials |
|--|---------------------|------------------------------------|--------------------------------------|
| Product | Material | | |
| Structural Fiberboard | Recovered materials | - | 80-100 |
| Laminated Paperboard | Postconsumer paper | 100 | 100 |
| Rock Wool Insulation | Slag | - | 75 |
| Fiberglass Insulation | Glass cullet | - | 20-25 |
| Cellulose Insulation (loose-fill and spray-on) | Postconsumer paper | 75 | 75 |
| Perlite Composite Board Insulation | Postconsumer paper | 23 | 23 |
| Plastic Rigid Foam, Polyisocyanurate/polyurethane: Rigid Foam Insulation | Recovered material | - | 9 |
| Foam-in-Place Insulation | Recovered material | - | 5 |
| Glass Fiber Reinforced Insulation | Recovered material | - | 6 |
| Phenolic Rigid Foam Insulation | Recovered material | - | 5 |

| | | | |
|---|---|--------------------|------------------------|
| Floor Tiles (heavy duty/ commercial use) | Rubber Plastic | 90-100 - | - 90-100 |
| Patio Blocks | Rubber or rubber blends Plastic or plastic blends | 90-100 - | - 90-100 |
| Polyester Carpet Face Fiber | Polyethylene terephthalate (PET) Resin | 25-100 | 25-100 |
| Latex Paint | | | |
| Consolidated Reprocessed | Recovered material | 100 | 100 |
| --White, Off-White, Pastel Colors | Recovered materials | 20 | 20 |
| --Grey, Brown, Earthtones, and other Dark Colors | Recovered materials | 50-99 | 50-99 |
| Shower and Restroom Dividers/Partitions | Plastic Steel (BOF) process Steel (EAF) process | 20-100 16 67 | 20-100 20-30 100 |
| Carpet Cushion | | | |
| --Bonded Polyurethane | Old Carpet Cushion | 15-50 | 15-50 |
| --Jute | Burlap | 40 | 40 |
| --Synthetic Fibers | Carpet Fabrication Scrap | - | 100 |
| --Rubber | Tire Rubber | 60-90 | 60-90 |
| Railroad Grade Crossing Surfaces | | | |
| --Concrete | Coal Fly Ash | - | 15-20 |
| --Rubber | Tire rubber | - | 85-95 |
| --Steel | Steel (BOF) process Steel (EAF) process | 16 67 | 25-30 100 |

Cement Specification

- ASTM C 595, "Standard Specification for Blended Hydraulic Cements."
- ASTM C 150, "Standard Specification for Portland Cement."
- AASHTO M 240, "Blended Hydraulic Cements."

Concrete Specifications

- ASTM C 618, "Standard Specification for Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Portland Cement Concrete."
- ASTM C 311, "Standard Methods of Sampling and Testing Fly Ash and Natural Pozzolans for Use as a Mineral Admixture in Portland Cement Concrete."
- ASTM C 989, "Ground Granulated Blast-Furnace Slag for use in Concrete Mortars."
- AASHTO M 302, "Ground Granulated Blast Furnace Slag for Use in Concrete and Mortars."
- American Concrete Institute Standard Practice ACI 226.R1, "Ground Granulated Blast-Furnace Slag as a Cementitious Constituent in Concrete."

LANDSCAPING PRODUCTS

| Item | Recovered Material Content |
|---|---|
| Hydraulic Mulch: | |
| Paper | 100% |
| Wood/Paper | 100% |
| Compost made from Yard Trimmings and/or FoodWaste | Purchase or use compost from yard trimmings, leaves, grass clippings and/or foodwastes for applications such as landscaping, seeding of grass or other plants, as nutritious mulch under trees and shrubs, and in erosion control and soil reclamation. |
| Garden Hose: | |
| Rubber and/or plastic | 60-65% (postconsumer) |
| Soaker Hose: | |
| Rubber and/or plastic | 60-70% (postconsumer) |
| Lawn and Garden Edging: | |
| Rubber and/or plastic | 30-100% (postconsumer) 30-100% (total) |
| Landscaping Timber and Posts: | |
| HDPE | 25-100% (postconsumer)/75-100% (total) |
| Mixed Plastics/Sawdust | 50% (postconsumer)/100% (total) |
| HDPE/Fiberglass | 75% (postconsumer)/95-100% (total) |
| Other Mixed Resins | 50-100% (postconsumer)/95-100% (total) |

PARK & RECREATION PRODUCTS

| | Recovered Material Content |
|------------------------------------|--|
| Park Benches & Picnic | |
| --Plastic | 90-100% (postconsumer)/100% (total) |
| --Plastic Composites | 50-100% (postconsumer)/100% (total) |
| --Aluminum | 25% (postconsumer) |
| --Concrete | 15-40% (total) |
| --Steel (BOF) process | 16% (postconsumer)/25-30% (total) |
| --Steel (EAF) process | 67% (postconsumer)/100% (total) |
| Plastic Fencing for Specified Uses | 60-100% (postconsumer)/90-100% (total) |
| Playground Equipment | |
| --Plastic | 90-100% (postconsumer)/100% (total) |
| --Plastic Composites | 50-75% (postconsumer)/95-100% (total) |
| --Steel (BOF) process | 16% (postconsumer)/25-30% (total) |
| --Steel (EAF) process | 67% (postconsumer)/100% (total) |
| --Aluminum | 25% (postconsumer)/25% (total) |
| Playground Surfaces: | |
| --Plastic or Rubber | 90-100% (postconsumer) |
| Running Tracks: | |
| --Plastic or Rubber | 90-100% (postconsumer) |

TRANSPORTATION PRODUCTS

| Item | | Recovered Material Content | |
|---|--|---|----------------|
| Traffic cones | | | |
| | Plastic (PVC and LDPE) | 50-100% | |
| | Crumb Rubber | 50-100% | |
| Traffic barricades (type I and II only) | | | |
| | Plastic (HDPE, LDPE, PET) | 80-100% (postconsumer)/100% (total) | |
| | Steel (BOF) process | 16% (postconsumer)/25-30% (total) | |
| | Steel (EAF) process | 67% (postconsumer)/100% (total) | |
| | Fiberglass | 100% | |
| Parking Stops | | | |
| | Plastic and/or Rubber | 100% | |
| | Concrete Containing Coal Fly Ash | Generally, 20-30%, but could be up to 40%. (15% when used as a partial cement replacement as an admixture in concrete.) | |
| | Concrete Containing Ground Granulated Blast Furnace Slag | 25-70% | |
| Traffic Control Devices | | | |
| Channelizers | Plastic | 25-95% | (postconsumer) |
| | Rubber (base only) | 100% | (postconsumer) |
| Delineators | Plastic | 25-90% | (postconsumer) |
| | Rubber (base only) | 100% | (postconsumer) |
| | Steel (base only) (BOF) process | 16% (postconsumer)/25-30% (total) | |
| | Steel (base only) (EAF) process | 67% (postconsumer)/100% (total) | |
| Flexible Delineators | | 25 -85% (postconsumer) | |

VEHICULAR PRODUCTS

| | | Recommendations |
|---|--|--|
| Re-Refined Oil | | 25 percent or more re-refined oil base stock for lubricating oils, hydraulic fluids, and gear oils. |
| Retread Tires (excluding airplane tires) | | Purchase retread tires or tire retreading services to the maximum extent feasible. |
| Engine Coolants | | Reclaim engine coolants on site or contract for off-site reclamation services. Also, request reclaimed engine coolant when having vehicles serviced at commercial service centers and buy it when making direct purchases. |

MISCELLANEOUS PRODUCTS**Item** **Recovered Material Content****Award and Plaques**

| | |
|-------------------------------------|--|
| Glass | 75-100% (postconsumer)/100% (total) |
| Wood | 100% (total) |
| Paper | 40-100% (postconsumer) |
| Plastic and Plastic/Wood Composites | 50-100% (postconsumer)/95-100% (total) |

Industrial Drums

| | |
|---------------------|-----------------------------------|
| Steel (BOF) process | 16% (postconsumer)/25-30% (total) |
| Plastic (HDPE) | 30-100% (postconsumer) |
| Fiber (paper) | 100% (postconsumer) |

Mats

| | |
|--------------------------|--|
| Rubber | 75-100% (postconsumer)/85-100% (total) |
| Plastic | 10-100% (postconsumer)/100% (total) |
| Rubber/Plastic Composite | 100% (postconsumer) |

Pallets

| | |
|--------------|------------------------|
| Wood | 95-100% (postconsumer) |
| Plastic | 100% (postconsumer) |
| Thermoformed | 25-50% (postconsumer) |
| Paperboard | 50% (postconsumer) |

Signage

| | |
|---|-----------------------------------|
| Plastic | 80-100% (postconsumer) |
| Aluminum | 25% (postconsumer) |
| Plastic Sign Posts/Supports | 80-100% (postconsumer) |
| Steel Sign Posts/Supports (BOF) process | 16% (postconsumer)/25-30% (total) |
| Steel Sign Posts/Supports (EAF) process | 67% (postconsumer)/100% (total) |

Sorbents

| | |
|-------------------------------|-------------------------------------|
| Paper | 90-100% (postconsumer)/100% (total) |
| Textiles | 95-100% (postconsumer) |
| Plastics | 25-100% (total) |
| Wood | 100% (total) |
| Other Organics/Multimaterials | 100% (total) |

Manual-Grade Strapping

| | |
|---------------------|-----------------------------------|
| Polyester | 50-85% (postconsumer) |
| Polypropylene | 10-40% (total) |
| Steel (BOF) process | 16% (postconsumer)/25-30% (total) |
| Steel (EAF) process | 67% (postconsumer)/100% (total) |

